

PUBLIC NOTICE
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)
MIKEEBO INC.
TECHNICALLY COMPLETE SOLID WASTE MAJOR MODIFICATION

The LDEQ, Office of Environmental Services, has determined that a major modification for Mikeebo, inc., 1603 Barksdale Boulevard, Shreveport, LA 71111, for the Type III Construction and Demolition Debris Landfill is technically complete and acceptable for public review. **The facility is located between the intersection of Hwy 173 and Hwy 1 (Section 14, Township 19N, Range 15W) which is approximately 10 miles Northwest of Shreveport, Caddo Parish.**

Mikeebo submitted the geotechnical investigation for the original footprint of the facility. No changes to the physical characteristics of the facility were proposed, but updated information was supplied to DEQ including archeological data, a geometrical assessment, census data and financial assurance information.

Written comments, written requests for a public hearing or written requests for notification of the final decision regarding this permit action may be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests must be received by 12:30 p.m., Monday, November 10, 2008.** Written comments will be considered prior to a final permit decision.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The technically complete application is available for review at the LDEQ Public Records Center, Room 127, 602 North 5th Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). **The available information can also be accessed electronically on the Electronic Document Management System (EDMS) on the DEQ public website at www.deq.louisiana.gov.**

Additional copies may be reviewed the Shreve Memorial Library located at 424 Texas Street, Shreveport, LA 71101, the Caddo Parish Commission located at 505 Travis Street, Suite 800, Shreveport, LA 71101 and the LDEQ Northwest Regional Office located at 1525 Fairfield, Room 520, Shreveport, LA. 71101

Inquiries or requests for additional information regarding this permit action should be directed to Curt Auzenne, LDEQ, Waste Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3468.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at deqmaillistrequest@la.gov or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

Permit public notices including electronic access to general information from the technically complete solid waste permit application can be viewed at the LDEQ permits public notice webpage at www.deq.louisiana.gov/apps/pubNotice/default.asp and general information related to the public participation in permitting activities can be viewed at www.deq.louisiana.gov/portal/tabid/2198/Default.aspx.

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at www.doa.louisiana.gov/oes/listservpage/ldeq_pn_listserv.htm

All correspondence should specify AI Number 117009, Permit Number P-0381, and Activity Number PER20070001.

Scheduled publication date: Monday, October 6, 2008

form_7131_r01
04/30/07

BOBBY JINDAL
GOVERNOR



HAROLD LEGGETT, Ph.D.
SECRETARY

State of Louisiana

DEPARTMENT OF ENVIRONMENTAL QUALITY ENVIRONMENTAL SERVICES

OCT 02 2008

CERTIFIED MAIL 7003 2260 0005 9324 4638
RETURN SERVICE REQUESTED

Mr. Duwain Taylor
Mikeebo, Inc.
1603 Barksdale Boulevard
Shreveport, Louisiana 71111

RE: Notice of Technical Completeness
Mikeebo, Inc.
Major Modification – Geotechnical Investigation
AI #117009 / D-017-12376 / P-0381/PER20070001
Caddo Parish

Dear Mr. Taylor:

As you know, the Waste Permits Division issued a letter of technical completeness on September 25, 2008. Please note that the department inadvertently referenced that the subject modification included a landfill expansion in the September 25, 2008 letter.

This letter shall serve to clarify that the proposed technically complete major modification is in relation to a geological investigation and is not a proposed landfill expansion.

As stated in the September 25, 2008 letter, the Environmental Assistance Division will distribute copies of your major modification for public review and place public notices in the appropriate newspapers in accordance with LAC 33:VII.513.F.3. Please contact Ms. Soumaya Ghosn at (225) 219-3276 for the date of publication and the dates for the comment period. At the conclusion of the comment period, the Waste Permits Division will consider all comments and a decision will be made regarding your modification.

Please reference Agency Interest Number 117009, Permit Number P-0381, Permit Activity Number PER20070001 and Site Identification Number D-017-12376 on all future correspondence pertaining to this facility. If you have any questions concerning this matter, please contact Mr. Curt A. Auzenne of the Waste Permits Division at (225) 219-3468.

Sincerely,

A handwritten signature in black ink, appearing to read "Bijan Sharafkhani".

Bijan Sharafkhani, P.E.
Administrator
Waste Permits Division

cc

c: Zia Tammami, P.G., C-K Associates
Northwest Regional Office

2008 AUG 22 PM 3 23

August 21, 2008

Mr. Bijan Sharafkhani, P.E.
Louisiana Department of Environmental Quality
Office of Environmental Services
P.O. Box 4313
Baton Rouge, Louisiana 70821-4313

Re: **Mikeebo, Inc.**
Major Modification – Landfill Cell Expansion
Response to Request for Final Copies
D-017-12376 / AI#117009 / PER20030001 / P-0381

original to IOSW
copy to SW/Thomas
BJR

REGIONAL OFFICES

HOUSTON, TX
PH (281) 397-9016
FAX (281) 397-6637

NEW ORLEANS, LA
PH (504) 301-4992
FAX (504) 304-7759

SHREVEPORT, LA
PH (318) 797-8636
FAX (318) 798-0478

LAKE CHARLES, LA
PH (337) 439-8699
FAX (337) 439-3337

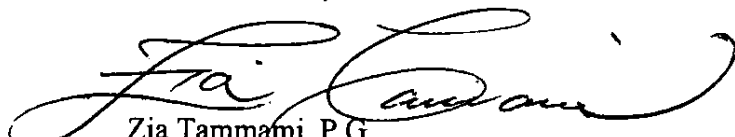
Dear Mr. Sharafkhani:

On behalf of our client, Mikeebo, Inc., C-K Associates, LLC (C-K) is pleased to provide six final bound copies of the complete Notice of Deficiencies (NOD) response with the following Addenda:

- Addendum 1: Additional Information Regarding Site Geology
- Addendum 2: Part I Form
- Addendum 3: Certificate of Insurance

Should you have any questions, please contact me at (225) 755-1000.

Very truly yours,
C-K Associates, LLC


Zia Tammami, P.G.
Manager, Risk/Remediation Group

RECEIVED
AUG 22 2008
LDEQ

NOD RESPONSE

**MIKEEBO, INC.
SHREVEPORT, LOUISIANA**

**SOLID WASTE PERMIT
APPLICATION FOR MAJOR
MODIFICATION**

**NOTICE OF DEFICIENCIES
RESPONSE**

MARCH 2008

C-K Associates' Project No. 3861WS

**SOLID WASTE PERMIT APPLICATION FOR
MAJOR MODIFICATION**

NOTICE OF DEFICIENCIES RESPONSE

**MIKEEBO, INC.
SHREVEPORT, LOUISIANA**

**AI# 117009
D-017-12376
PER20030001
P-0381**

MARCH 2008

**Prepared by:
C-K Associates, LLC
17170 Perkins Road
Baton Rouge, Louisiana 70810
(225) 755-1000**

C-K Associates' Project No. 3861WS

TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
1.0 TRANSMITTAL LETTER	1
2.0 INTRODUCTION	2
3.0 NOTICE OF DEFICIENCY	3
4.0 MANAGEMENT CERTIFICATION	5
5.0 RESPONSES TO NOTICE OF DEFICIENCIES	6

LIST OF ATTACHMENTS

Attachment

- A Figure 1, Site Plan
- B Deep Soil Boring Logs
- C Soil Descriptions for Borings B-1, B-2 and B-3
- D Figure C-7

SECTION 1.0

TRANSMITTAL LETTER

05/26/2008 21:57 3184255065

TAX REFUND NOW

PAGE 05/13

Solid Waste Permit Major Modification
Notice of Deficiencies Response
Mikeco, Inc.
March 2008

1.0 TRANSMITTAL LETTER

March 12, 2008

Mr. Bijan Sharafkhani
Louisiana Department of Environmental Quality
Office of Environmental Services
P.O. Box 4313
Baton Rouge, Louisiana 70821-4313

Re: Mikeco, Inc.
Major Modification NOD #1
Landfill Cell Expansion
Response to Notice of Deficiency
D-017-12376 / AI#117009 / PER20030001 / P-0381

Dear Mr. Sharafkhani:

In accordance with the requirements included in the Notice of Deficiency received by Mikeco, Inc. dated January 17, 2008, Mikeco, Inc. is submitting one original and four copies of responses to the deficiencies identified in the September 2007 solid waste permit major modification for the Landfill Cell Expansion.

This response document has been developed in a format that states the deficiency in regular typeface followed immediately by a response to the deficiency in bold typeface, as requested in your transmittal letter.

Should you have any questions, please contact me at (318) 425-5039.

Best regards,

Duwan Taylor
Duwan Taylor
President

SECTION 2.0
INTRODUCTION

2.0 INTRODUCTION

A permit application for the Mikeebo, Inc. (Mikeebo), Type III Construction/Demolition Debris and Woodwaste Landfill was submitted to the Louisiana Department of Environmental Quality (LDEQ) on September 1, 2003. A Notice of Deficiencies (NOD) was issued by LDEQ on July 12, 2004, to which Mikeebo responded on August 11, 2004. LDEQ issued a second NOD on October 6, 2004; a revised final permit application was provided in response on December 16, 2004. The final permit was granted September 22, 2005.

A minor modification to the permit, preparing Phase 2 as the first disposal cell, rather than Phase 1, was approved by LDEQ on February 6, 2006.

Information regarding a major modification to the permit was provided to LDEQ on August 9, 2007. No changes to the physical characteristics of the facility were proposed, but updated information was supplied to the agency including archeological data, a geotechnical assessment, census data, and financial assurance information. Mikeebo received an NOD dated January 17, 2008 for this submittal.

The purpose of this document is to provide the LDEQ with responses to those comments and information necessary for the LDEQ to approve requested major modification to the Mikeebo facility Type III Landfill Permit Application. This response document has been developed in a format that states the LDEQ comments in regular typeface followed immediately by a response to the comments in bold typeface.

SECTION 3.0
NOTICE OF DEFICIENCY



DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO
GOVERNOR

MIKE D. McDANIEL, Ph.D.
SECRETARY

JAN 17 2008

CERTIFIED MAIL 7003 2260 0005 9323 6480
RETURN RECEIPT REQUESTED

Mr. Duwain Taylor
Mikeebo, Inc.
1603 Barksdale Boulevard
Shreveport, LA 71111

RE: Landfill Cell Expansion
Major Modification NOD #1
Mikeebo, Inc.
Type III Construction/Demolition Debris and Woodwaste Landfill
D-017-12376/AI #117009/PER20030001/P-0381
Caddo Parish

Dear Mr. Taylor:

The Waste Permits Division has performed the technical review of the Major Modification submitted on September 5, 2007, on your behalf by Brown and Caldwell. The submittal has been determined to be deficient and not in compliance with LAC 33:VII. The deficiencies are outlined below:

Geology Comments

522.A.2 and 3.

Based on the boring data collected from the expansion area, clayey sand is encountered at several boring locations. The clayey sand extends to or below the proposed elevation of the cell bottoms (220 feet MSL) at borings B-1, B-2, B-3, and B-4. These borings also terminate in the clayey sand; therefore, the vertical extent of the clayey sand has not been determined. Mikeebo must determine the thickness of the clayey sand.

At boring B-6 location, the surface elevation is 208.2 feet MSL. Clarify if waste will be placed on the ground surface to an elevation of 220 feet MSL in this area of the site.

Please provide the boring logs (soil descriptions) for the earlier borings (test pits) B-1, B-2 and B-3 conducted in 2003.

ENVIRONMENTAL SERVICES

: PO BOX 4313, BATON ROUGE, LA 70821-4313

P:225-219-3181 F:225-219-3309

WWW.DEQ.LOUISIANA.GOV

Because the soil at the proposed expansion area does not meet the requirement of 801.A.2, a design for surfacing natural soils shall be prepared and installed as provided by 801.A.3.

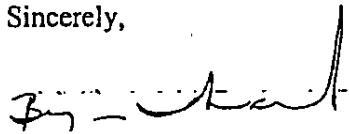
According to LDOTD's Registered Water Well Database, there are three public supply water wells and one domestic water well located within one mile of the facility. These wells are screened in the Carrizo-Wilcox Aquifer. Please provide information on the possible interconnectivity of the clayey sand occurring at the site and the Carrizo-Wilcox Aquifer.

522.B.1. The boring requirement information of 803.A.1.d and e (maps) shall be submitted. The existing topographic contours provided in Figure C-7 of the application are not legible.

Your response to these deficiencies shall be sent to this office within thirty (30) days of receipt of this letter. Additionally, five (5) copies of your response, including appendices, shall be provided. Failure to respond to these deficiencies as described as well as failure or refusal to comply with this notice may result in a permit denial.

Please reference Agency Interest Number (AI 117009), Facility Identification Number (D-017-12376), Permit Activity Number (PER20030001), and Permit Number (P-0381) on all future correspondence. If you have any questions concerning this matter, please contact Ms. Celeste Bonneau (Geology Comments at (225) 219- 3149 or Mr. Curt A. Auzenne at (225) 219-3060.

Sincerely,



Bijan Sharafkhani, P.E.
Administrator
Waste Permits Division

caa

SECTION 4.0

MANAGEMENT CERTIFICATION

05/26/2008 21:57 3184255865

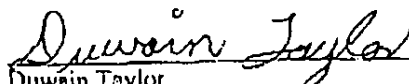
TAX REFUND NOW

PAGE 13/13

Solid Waste Permit Major Modification
Notice of Deficiencies Response
Mikecho, Inc.
March 2008

4.0 MANAGEMENT CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments, and that, based on my inquiry of those individuals immediately responsible for obtaining information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.


Duwain Taylor
President

Date

SECTION 5.0

RESPONSES TO NOTICE OF DEFICIENCIES

5.0 RESPONSES TO NOTICE OF DEFICIENCIES

Geology Review:

REG/SECTION

COMMENTS

§522.A.2 and 3

Based on the boring data collected from the expansion area, clayey sand is encountered at several boring locations. The clayey sand extends to or below the proposed elevation of the cell bottoms (220 feet MSL) at borings B-1, B-2, B-3, and B-4. These borings also terminate in the clayey sand; therefore, the vertical extent of the clayey sand has not been determined. Mikeebo must determine the thickness of the clayey sand.

RESPONSE:

Per LDEQ recommendation, two (2) additional deep soil borings (noted as SB-1 and SB-2 on Figure 1, Site Plan; noted as B-1 and B-3, respectively, in Attachment B) were completed on the northwest side of Mikeebo's C&D landfill. These two soil borings were sampled continuously for the first ten feet. Soil samples were collected at five-foot centers from ten feet (ft) below land surface (bls) to the final depth of 80 feet at each boring location.

Subsurface geology in these two deep soil borings is similar. In general, medium to dense, tan, poorly graded sand with clay extends to approximately 53 ft bls. Hard, black lignite, approximately five feet in thickness, was encountered from 53 to 58 ft bls. Very dense, gray, poorly graded sand and clay continues to the total depth of each soil boring (80 ft bls). During drilling of these two soil borings, no water was encountered.

PSI's boring logs and an engineering stamped cover letter are provided as Attachment B.

§522.A.2 and 3 (con't)

At boring B-6 location, the surface elevation is 208.2 feet MSL. Clarify if waste will be placed on the ground surface to an elevation of 220 feet MSL in this area of the site.

RESPONSE:

Future cell/phase expansion at the facility, in the area which will encompass the boring B-6 location, will be constructed per LDEQ Title 33, Part VII, Solid Waste Regulation Subparts 1 and 2 requirements for Type III C&D Landfills. Waste will not be placed on the ground surface. Waste will be placed within a

properly designed cell which will comply with Title 33 design requirements for Type III C&D facilities.

§522.A.2 and 3 (con't) Please provide the boring logs (soil descriptions) for the earlier borings (test pits) B-1, B-2 and B-3 conducted in 2003.

RESPONSE:

Site soils consist of clay, sandy clay, clayey silt, and clayey sand. Three test pits were excavated to a depth of five feet. Adjacent to the test pits, three soil borings were conducted to a depth of five feet below ground surface within the existing borrow pit as depicted in the figure at the end of Attachment C.

Shelby tube samples were collected from the 0"-30" and 30"-60" depth intervals of each boring. Based on geotechnical analyses conducted on these samples, permeabilities are low, ranging from $1.14\text{E-}07$ to $9.37\text{E-}08$ cm/sec. The laboratory report is included in Attachment C.

§522.A.2 and 3 (con't) Because the soil at the proposed expansion area does not meet the requirement of 801.A.2, a design for surfacing natural soils shall be prepared and installed as provided by 801.A.3.

RESPONSE:

In the future expansion area, where natural soils beneath the proposed cell(s) do not meet the requirement of Section 801.A.2, a design for surfacing natural soils will be prepared, installed, and certified per Section 801.A.3.

§522.A.2 and 3 (con't) According to LDOTD's Registered Water Well Database, there are three public supply water wells and one domestic water well located within one mile of the facility. These wells are screened in the Carrizo-Wilcox Aquifer. Please provide information on the possible interconnectivity of the clayey sand occurring at the site and the Carrizo-Wilcox Aquifer.

RESPONSE:

Based on the recent deep soil boring program completed at the Mikeebo facility by PSI Geotechnical Engineering Company (January 2008), an extensive dense clayey sand formation (in excess of 80 feet in thickness) underlies areas beneath the facility. During the recent deep soil boring program, no water was encountered in the 80-foot borings. The Mikeebo facility is located

downgradient from the above-referenced three public supply water wells and one domestic water well. In a large portion of the Mikeebo facility, the difference in the facility surface elevations and surface elevations where the above-referenced wells are located, are in excess of 30 feet MSL. There is not possible interconnectivity of the clayey sand formation occurring at the Mikeebo facility and the Carrizo-Wilcox Aquifer.

§522.B.1

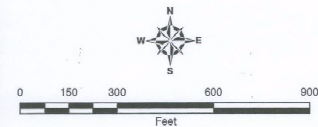
The boring requirement information of 803.A.1.d and 3 (maps) shall be submitted. The existing topographic contours provided in Figure C-7 of the application are not legible.

RESPONSE:

A revised, enlarged, and more legible edition of Figure C-7 is provided as Attachment D.

ATTACHMENTS

BOBINSKI - SITE PLAN.dwg



LEGEND

- NEW DEEP SOIL BORING LOCATION (01/00/08)
- EXISTING SOIL BORING LOCATION
- PROJECT AREA FOOTPRINT
- (247.11) ELEVATIONS FOR SB-1 AND SB-2 (NGVD 88, FT)

NOTES

MIKEEBO, INC.
SHREVEPORT, LOUISIANA
TYPE III C & D LANDFILL

SITE PLAN

CADDO PARISH



CK
ASSOCIATES, LLC
ENVIRONMENTAL & ENGINEERING
CONSULTANTS

Drawn:	ABL/AV 9.2
Checked:	ZT
Approved:	ZT
Date:	02/06/08
Dwg. No.:	B3861WS-01

FIGURE 1

ATTACHMENT B

DEEP SOIL BORING LOGS



January 31, 2008

Mikeebo, Inc.
1603 Barksdale Blvd.
Bossier City, LA 71111

Attention: Mr. Bo Taylor

Re: Subsurface Investigation
C&D Cells
Mikeebo, Landfill
Shreveport, Louisiana
PSI Report Number: 275-75035

Dear Mr. Taylor:

The expanded boring logs detailing the additional exploration depths for borings B-1 and B-3 are attached. The borings were done between January 4 and January 8, 2008. Soil visual classifications were done in accordance with the ASTM D-2488 specification.

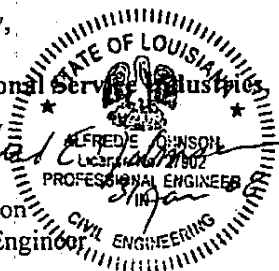
If you have any questions, please contact our office.

Sincerely,

Professional Service Industries, Inc.

Al Johnson

Project Engineer



Professional Service Industries, Inc.

Record of Subsurface Exploration

Boring: B-1

Project Name: Mikeebo Inc.

Date of Boring: January 4, 2008

Site: Landfill

Project No: 275-75035

Description	Depth feet	Sample type	N	Qu tsf	Qp tsf	δd pcf	Mc %	LL	PI	-200	Remarks
Surface											
Medium Brown Clayey Sand (SC)		SS	14	-	-	-	-	-	-	-	-
		ST	19								
	5	SS	23	-	-	-	-	-	-	-	-
—Becomes Dense at 6'		SS	31								
	10	SS	38	-	-	-	-	-	-	-	-
—Becomes Medium at 13'	15	SS	21	-	-	-	-	-	-	-	-
—Becomes Tan at 18'	20	SS	20	-	-	-	-	-	-	-	-
	25	SS	21	-	-	-	-	-	-	-	-
	30		25	-	-	-	-	-	-	-	-
Medium Red Poorly Graded Sand with Clay (SP-SC)	35		18	-	-	-	-	-	-	-	-
Dense Black Lean Clay (CL) with Lignite	40		26	-	-	-	-	-	-	-	-
Dense Tan Clayey Sand (SC)	45		38	-	-	-	-	-	-	-	-
—Becomes Medium at 48'	50		15	-	-	-	-	-	-	-	-

Record of Subsurface Exploration

Boring: B-1

Project Name: Mikeebo Inc.

Date of Boring: January 4, 2008

Site: Landfill

Project No: 275-75035

[illegible]

Professional Service Industries, Inc.
Record of Subsurface Exploration

Boring: B-3

Project Name: Mikeebo Inc.

Date of Boring: January 4, 2008

Site: Landfill

Project No: 275-75035

Description	Depth feet	Sample type	N	Qu tsf	Qp tsf	δd pcf	Mc %	LL	PI	-200	Remarks
Surface											
Loose Tan Clayey Sand (SC) —Becomes Very Dense at 3'		SS	5	-	-	-	-	-	-	-	-
		ST									
	5	SS	-	-	4.5	-	-	-	-	-	-
		SS									
Medium Tan Silty Sand (SM) —Become Loose at 13'	10	SS	13	-	-	-	-	-	-	-	-
	15	SS	9	-	-	-	-	-	-	-	-
Medium Tan Poorly Graded Sand with Silt (SP-SM)	20	SS	26	-	-	-	-	-	-	-	-
	25	SS	29	-	-	-	-	-	-	-	-
Dense Tan Poorly Graded Sand with Clay (SP-SC) —Becomes Very Dense at 43'	30		38	-	-	-	-	-	-	-	-
	35		50	-	-	-	-	-	-	-	-
	40		38	-	-	-	-	-	-	-	-
	45		51	-	-	-	-	-	-	-	-
	50		65	-	-	-	-	-	-	-	-

Professional Service Industries, Inc.

Record of Subsurface Exploration

Boring: B-3

Project Name: Mikeebo Inc.

Date of Boring: January 4, 2008

Site: Landfill

Project No: 275-75035

[illegible]

ATTACHMENT C

**SOIL DESCRIPTIONS FOR BORINGS
B-1, B-2 AND B-3**

TRANSMITTAL

STE*Soil Testing Engineers, Inc.*

To: Brown & Caldwell
11550 Newcastle Avenue
Suite 140
Baton Rouge, LA 70816

Date: June 3, 2003
STE File No.: 03-7036
Project: Mikeebo

Attention: Dean Walcott

From: George L. Perkins, C.E.T.

COPIES	DESCRIPTION
1	Laboratory Test Data Table 1
1	Gradation Curves

THESE ARE TRANSMITTED:

- ☒ FOR YOUR USE ☐ FOR REVIEW & COMMENT ☒ AS REQUESTED
☐ REVISE AS NOTED ☐ TO BE DISTRIBUTED

REMARKS:

Page 1 of 6

LELAP Certificate No. 02052

316 HIGHLANDIA DRIVE
BATON ROUGE, LA 70810
(225) 752-4700 FAX: (225) 752-4879

LELAP Certificate 72052

MIKEEBO
LABORATORY TEST RESULTS
TABLE 1

Date Tested	Sample ID	Depth (feet)	ASTM D1557 Moisture Content (%)	Dry Density (pcf)	Volumetric Moisture Content (decimal)	Volumetric Air Content (decimal)	Total Porosity (decimal)	ASTM D1557 Specific Gravity	ASTM D1557 Permeability (cm/sec)	ASTM D1557 Organic Content (%)	ASTM D1557 Atterberg Limits			ASTM D1557 Particle Size Analysis	CLASSIFICATION
											LL (%)	PL (%)	PI (%)		
											39	35	4	*	Tan & Red clayey silt w/sand
22-May	B-1	15'-45"	27.8	89.4					9.37E-08		27	21	6		Tan & Red clayey sand
22-May	B-1	45'-75"									43	16	27	*	Red, Tan & Light Gray sandy clay
22-May	B-2	0-30"	17.4	103.3					1.14E-07		36	28	8		Tan & Red clayey sand
22-May	B-2	30'-60"									51	20	31	*	Tan, Red & Light Gray clay w/sand seams & gravel inclusions
22-May	B-3	0-30"	16.5	108.3					9.54E-08		33	25	8		Tan & Red clayey sand
22-May	D-3	30'-60"													

NOTE: See attached graphs

(1) FCC = Organic content divided by 174

(2) Any optional tests methods used ☐ yes ☒ no if yes list.

STE
Soil Testing Engineers, Inc.
315 Highland Drive
Baton Rouge, LA

Client: Brown Caldwell
Location: Shreveport, LA

Page 1 of 1

STE File: 03-7036
6/3/03

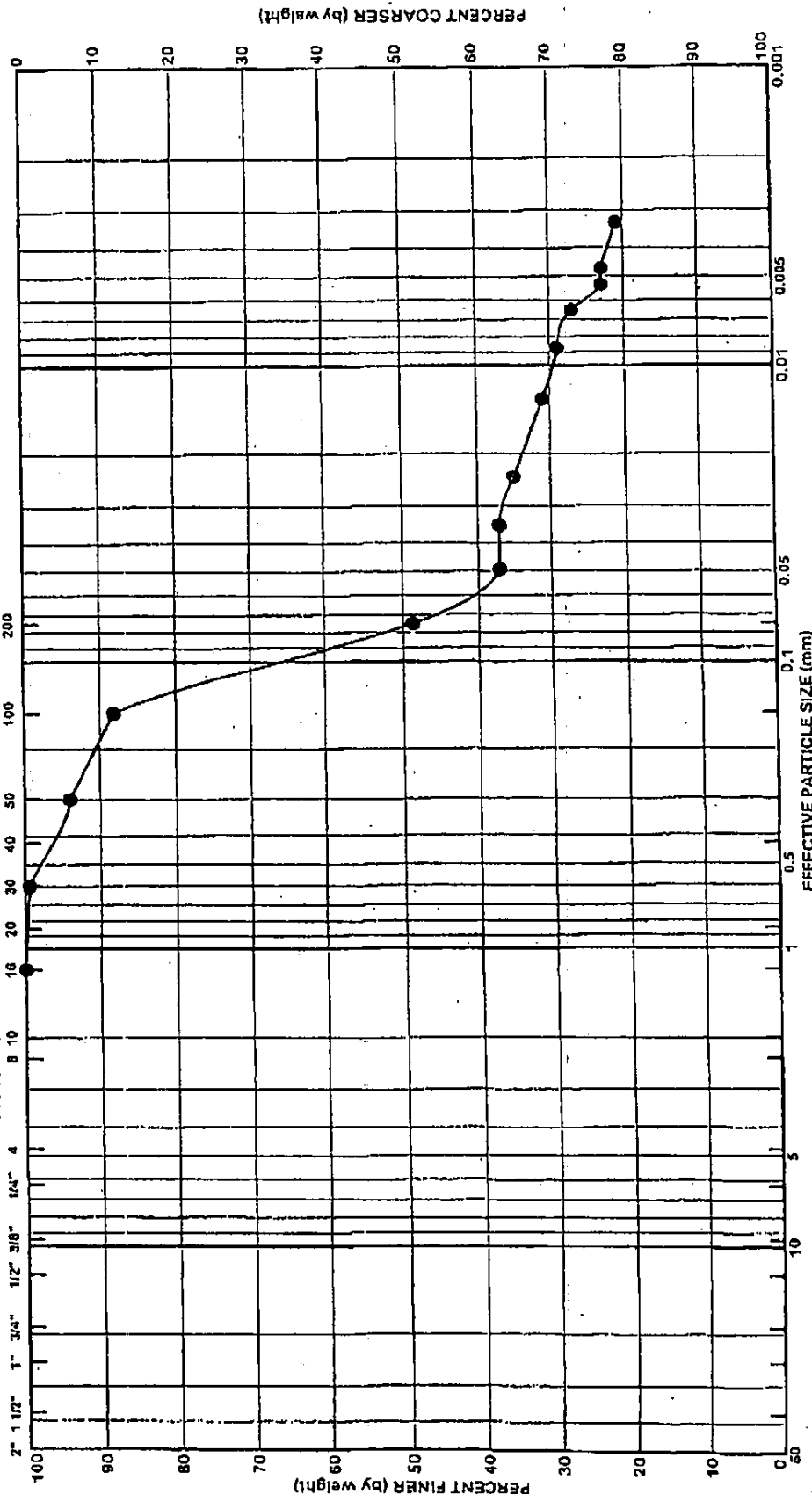
LELAP Certificate No. 02052

Sample No.	Identification	Gravel (%)	Sand (%)	Silt (%)	Clay (%)
● B-1	15"-45"	0.0	51.2	25.8	23.0

GRAVEL SAND SILT CLAY

Hydrometer Analysis

ASTM Sieve Size



File No.: 03-7036
Date: 05/29/2003

GRAIN SIZE ANALYSIS

Mikeebo
Shreveport, LA

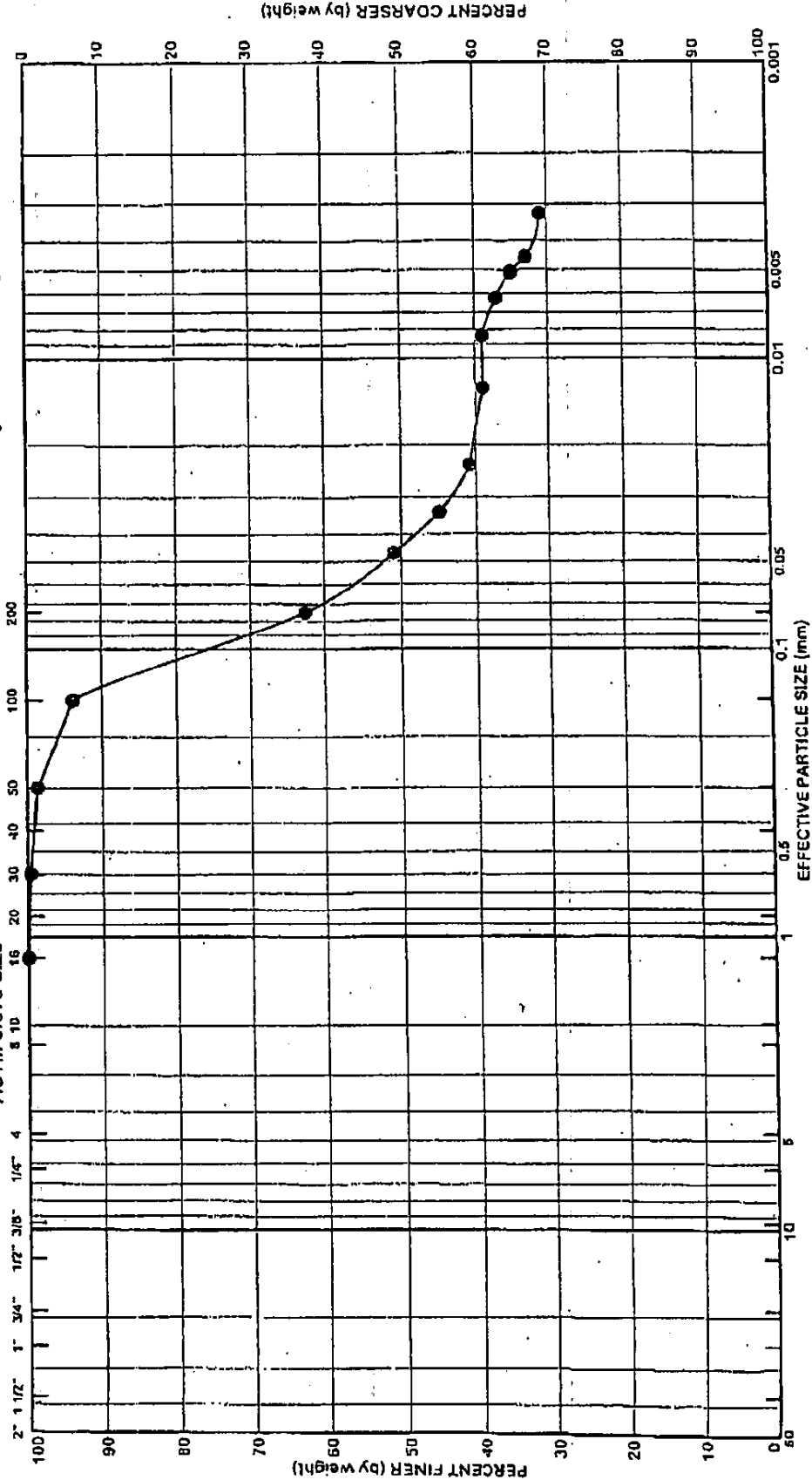
STE

Soil Testing Engineers, Inc.

LELAP Certificate No. 02052

Sample No. **B-2**
 Identification **0"-30"**
 Gravel (%) **0.0**
 Sand (%) **37.4**
 Silt (%) **27.9**
 Clay (%) **34.7**

GRAVEL			SAND			SILT			CLAY		
			ASTM Sieve Size			Hydrometer Analysis					
2"	1 1/2"	1"	3/4"	1/2"	3/8"	1/4"	4"				



CHAIN OF CUSTODY RECORD

Job No. 02-7036 Date: 5-21-03
Project Name Mikeebo / Brown and Caldwell
Project Location Shreveport, LA
Collectors Name Dean Wolcott
Type of Sample 3" Shelby Tube No. of Containers 6

SAMPLE ID	SAMPLE LOCATION	PURPOSE
B-1 (15"-45")	Borrow Pit	Atterberg Limit
B-1 (45"-75")		Determination on all
B-2 (0"-30")		six.
B-2 (30"-60")		Triaxial Permeability
B-3 (0"-30")		on (ASTM D5084)
B-3 (30"-60")	↓	three selected
		samples depending on
		results of Atterberg
		test.

Sample Shipped by Dean Wolcott Date 5-21-03
Custodian Dean Wolcott
Sample Received by Eric A. Pailh Date 5.21.03
Company Name STE

Remarks Please run Atterbergs and fax results to
Dean Wolcott (295 3704). Dean will select three
of the samples for Triaxial Permeability Testing.
Dean's phone number is 295 3700.

Thanks!



Y:
Soil Boring /
Test Pit
Location

0 75 150
Scale in Feet

DWN:

DES:

PROJECT NO.:

23872

CHKD:

APPD:

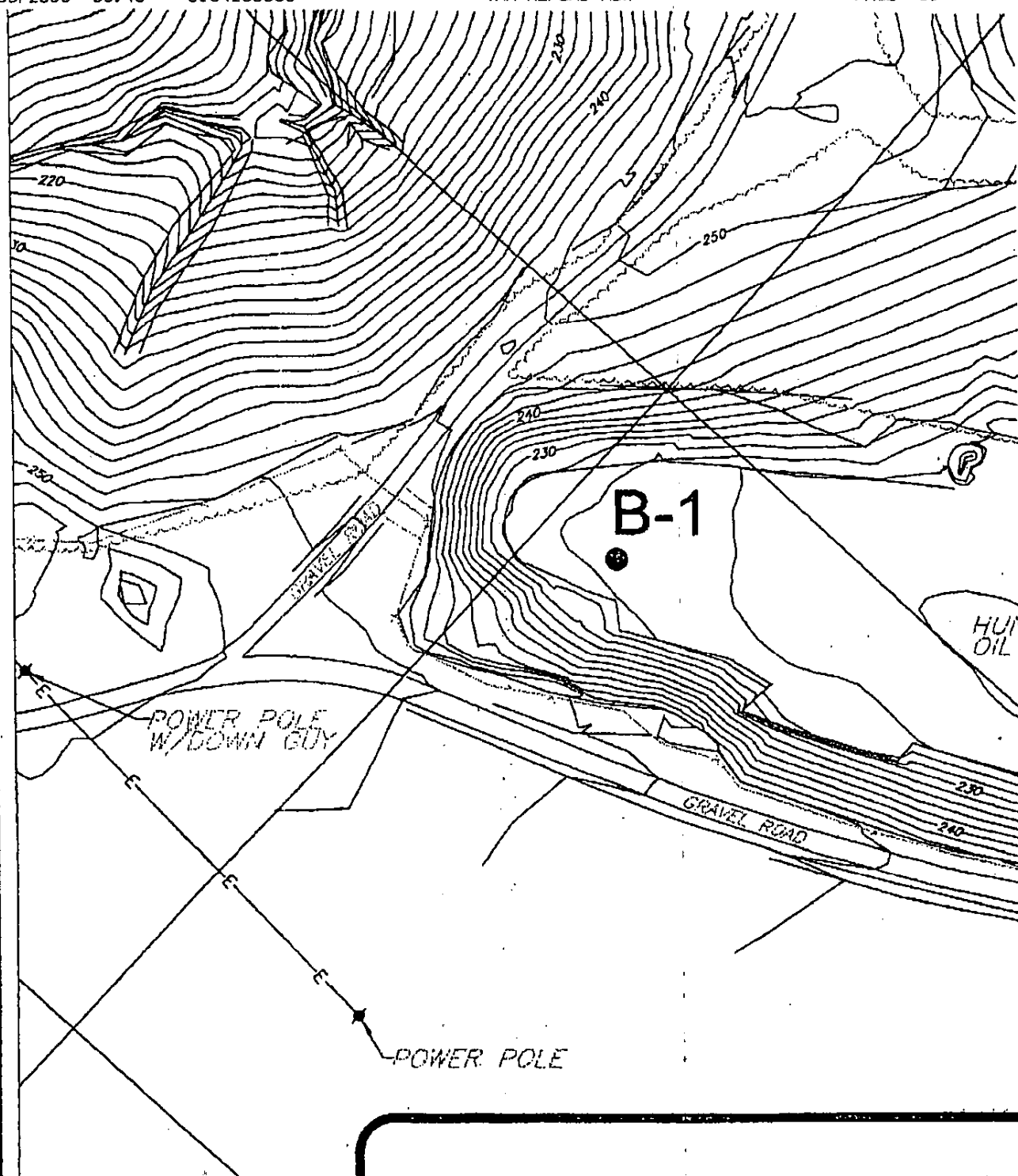
FIGURE NO.:

7

DATE:

11/14/02

REV.:



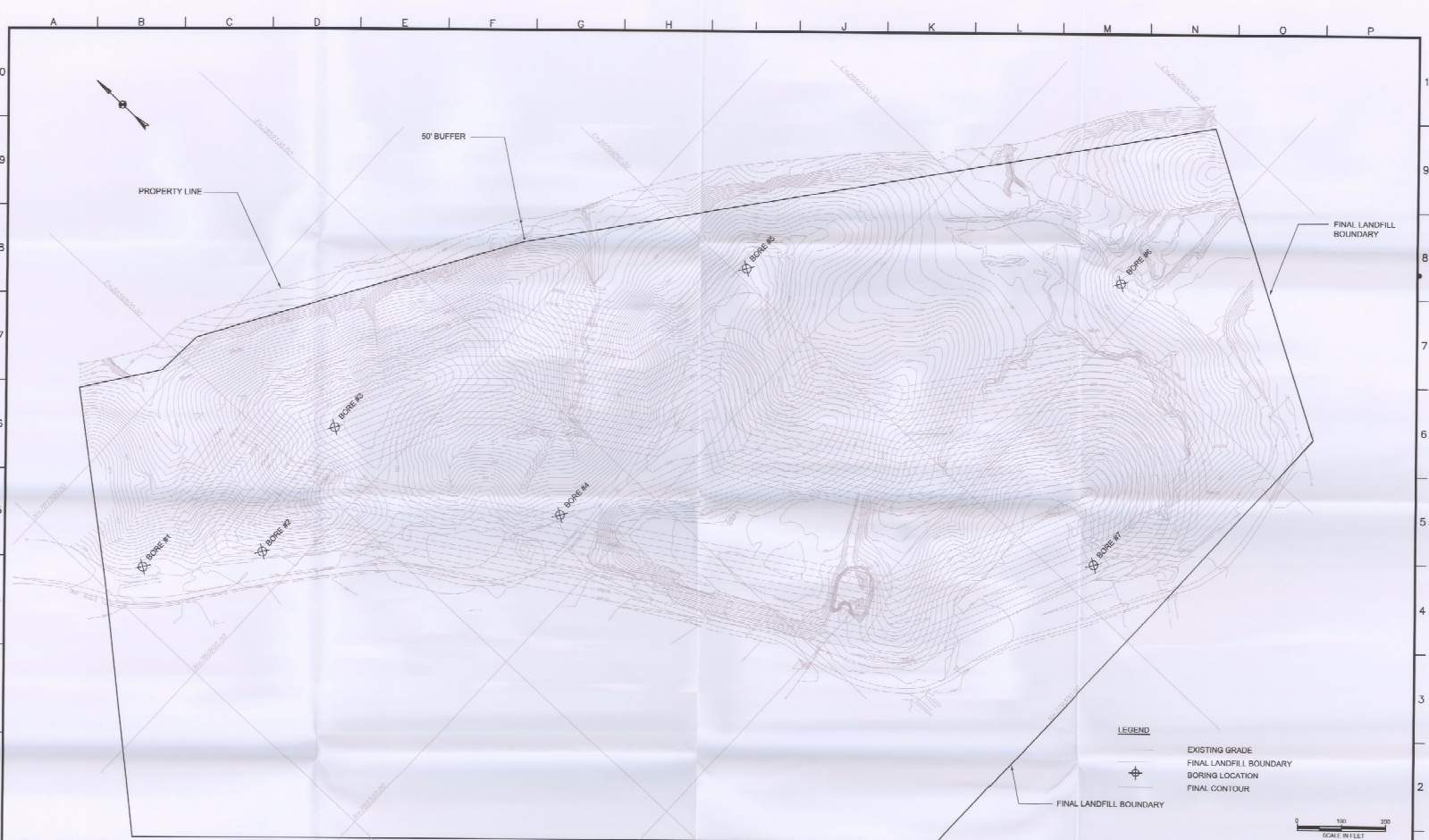
**BROWN AND
CALDWELL**
BATON ROUGE, LA

TITLE:

Figure 7
Soil Boring and Test Pit Locations
Mikeebo, Inc. - Shreveport, LA

ATTACHMENT D

FIGURE C-7



PRELIMINARY NOT FOR CONSTRUCTION

BROWN AND CALDWELL Nashville, Tennessee	
LINE IS 2 INCHES AT FULL SIZE (OF NOT 1/2"=1'-0" MEASUREMENTS)	
PROJECT NUMBER: 132736	
DRAWN: C. HAHN	
DESIGNED: J. MILLER	
CHECKED: J. MILLER	
DATE: _____	
DATE: _____	
DATE: _____	

REVISIONS				
ZONE	REV.	DESCRIPTION	BY	DATE

MIKEBO INCORPORATED

CONSTRUCTION AND DEMOLITION
LANDFILL

BORING LOCATIONS APRIL 2007	
DATE: 07-02-07 CAPFILE: 132736-C7 OPERATOR: JCT	
DRAWING NUMBER C7	
SHEET NUMBER	

ADDENDUM 1

**ADDITIONAL INFORMATION REGARDING
SITE GEOLOGY**



ASSOCIATES • L.L.C.

ENVIRONMENTAL & ENGINEERING
CONSULTANTS

17170 PERKINS ROAD
BATON ROUGE, LA 70810
PH (225) 755-1000
FAX (225) 751-2010
<http://www.c-ka.com>

REGIONAL OFFICES

HOUSTON, TX
PH (281) 397-9016
FAX (281) 397-6637

NEW ORLEANS, LA
PH (504) 301-4992
FAX (504) 304-7759

SHREVEPORT, LA
PH (318) 797-8636
FAX (318) 798-0478

LAKE CHARLES, LA
PH (337) 439-8699
FAX (337) 439-3337

May 6, 2008

Mr. Bijan Sharafkhani
Louisiana Department of Environmental Quality
Office of Environmental Services
P.O. Box 4313
Baton Rouge, Louisiana 70821-4313

**Re: Mikeebo, Inc.
Major Modification NOD #1
Landfill Cell Expansion
Response to Notice of Comments (Addendum)
Additional Information Regarding Site Geology
D-017-12376 / AI#117009 / PER20030001 / P-0381**

Dear Mr. Sharafkhani:

On behalf of our client, Mikeebo, Inc., C-K Associates, LLC (C-K) presents additional information regarding site geology at the Mikeebo Shreveport C&D Landfill facility. The following observations are being submitted to demonstrate that the landfill cell expansion will not adversely impact groundwater quality.

The Mikeebo landfill facility is located on a bluff, approximately 220 feet NGVD. During a recent subsurface investigation conducted at the site, soil borings drilled to 80 feet below ground surface (ft, bgs) did not encounter groundwater. Thus, activities conducted in near surface at the site will not impact groundwater.

Groundwater flow beneath the site is toward Twelvemile Bayou and away from existing water wells in the area. As stated in the "Water Resources of Bossier and Caddo Parishes, Louisiana: Water Resources Bulletin No. 5" (October 1964) local movement of groundwater is toward the valley alluvium (p. 40), which is northeast of the Mikeebo facility.

There is evidence of vertical flow of groundwater in the vicinity of the Mikeebo C&D landfill. Artesian conditions are noted in the "Water Resources of Bossier and Caddo Parishes, Louisiana: Water Resources Bulletin No. 5" (p. 38). This upward movement of groundwater further ensures that activities near surface soils at the Mikeebo landfill facility would not adversely impact groundwater within the area.

Water quality in the area is low, and would not be used for drinking (p.40 of "Water Resources of Bossier and Caddo Parishes, Louisiana: Water Resources Bulletin No. 5"). Excessive

Mr. Bijan Sharafkhani
May 8, 2008
Page 2 of 2

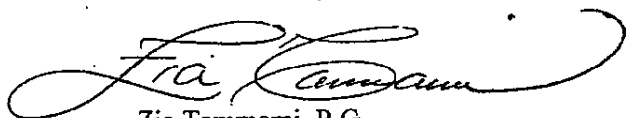
amounts of iron, fluoride, sodium, and/or chloride have been noted in groundwater from the Wilcox formation, making it unsuitable for human consumption and possibly incompatible with industrial uses because of scale-forming constituents in the water.

Soils at the Mikeebo site consist mainly of compacted/cemented dense sand. It is unlikely for activities near surface soils to penetrate to depths adequate to reach groundwater.

In accordance with LAC 33:VII.801.A.3, if sandy soils are encountered during construction of new cell, the area will be surfaced with two feet of compacted clay and certified by a Professional Engineer certified by the State of Louisiana.

Should you have any questions, please contact me at (225) 755-1000.

Very truly yours,
C-K Associates, LLC

A handwritten signature in black ink, appearing to read 'Zia Tammami', with a large, sweeping flourish extending from the end of the name.

Zia Tammami, P.G.
Manager, Risk/Remediation Group

ADDENDUM 2

PART I FORM

LAC 33:VII.519
SOLID WASTE STANDARD PERMIT APPLICATION - PART I

(The form shall be completed in accordance with the
instructions found in LAC 33:VII.519.A)

1. Applicant (Permit-Holder) Mikeebo, Inc.
2. Facility Name: Mikeebo, Inc. Property (NW of Shreveport, LA)
3. Facility Location/Description: Approximately 10 miles NW of Shreveport, LA
4. Location: Section 14 Township 19 N Range 15 W
Parish Caddo Parish

Coordinates: Latitude - Degrees 32 Minutes 38 Seconds 1.8
Longitude - Degrees 93 Minutes 52 Seconds 7.62
5. Mailing Address: 1603 Barksdale Blvd., Shreveport, Louisiana 71111
6. Contact: Mr. Duwain "Bo" Taylor
7. Telephone: (318) 425-5039
8. Type and Purpose of Operation: (check each applicable line)

Type I

Industrial Landfill ☐
Industrial Surface Impoundment ☐
Industrial Landfarm ☐

Type I-A

Industrial Incinerator Waste Handling Facility ☐
Industrial Shredder/Compactor/Baler ☐
Industrial Transfer Station ☐

Type II

Sanitary Landfill ☐
Residential/Commercial Surface Impoundment ☐
Residential/Commercial Landfarm ☐

Type II-A

Residential/Commercial Incinerator Waste Handling Facility ☐
Residential/Commercial Shredder/Compactor/Baler ☐
Residential/Commercial Transfer Station ☐
Residential/Commercial Refuse-Derived Fuel ☐

Type III

Construction/Demolition-Debris Landfill X

Woodwaste Landfill X

Compost Facility

Resource Recovery/Recycling Facility

Other

Describe _____

9. Site Status: Owned X Leased Lease Term Years

(Note: If leased, provide copy of lease agreement)

10. Operational Status: Existing X Proposed

11. Total Acreage 80 Processing Acreage 0 Disposal Acreage 52.6

12. Environmental Permits: (List)

LPDES Permit LAG780015

Solid Waste Permit P-0381

13. Zoned: Yes No X

Zone Classification: _____

14. Types, Quantities, and Sources of Waste:

	Processing		Disposal	
	Onsite	Offsite	Onsite	Offsite
Residential		0-2,800	0-2,800	
Industrial		0-2,800	0-2,800	
Commercial		0-2,800	0-2,800	
Other		0-2,800	0-2,800	

Note: It is anticipated that seasonal variations in C&D debris and woodwastes sources may result in large fluctuations in the amount and type of waste received.

15. Service Area: 60-65 mile-radius of facility

List of Parishes: _____

16. Proof of Operator's Public Notice - Attach proof of publication of the notice regarding the permit application submittal as required by LAC 33:VII.513.A.

Proof of operator's public notice is provided as Exhibit 1.

07/02/2008 01:33 3184255065

TAX REFUND NOW

PAGE 02

17. Certification: I have personally examined and am familiar with the information submitted in the attached document, and I hereby certify under penalty of law that this information is true, accurate, and complete to the best of my knowledge. I am aware that there are significant penalties for submitting false information, including the possibility of fine and/or imprisonment.

Signature Duwan TaylorDate 7-2-08Typed Name and Title: Mr. Duwan "Bo" Taylor, Owner, Mikeebo, Inc.

(Note: Attach proof of the legal authority of the signee to sign for the applicant.)

Proof of signatory legal authority to sign for the applicant is provided as Exhibit 2.

ADDENDUM 3

CERTIFICATE OF INSURANCE

SOLID WASTE FACILITY CERTIFICATE OF LIABILITY INSURANCE

Secretary
Louisiana Department of Environmental Quality
Post Office Box 4313
Baton Rouge, Louisiana 70821-4313

Attention: Office of Environmental Services,
Waste Permits Division

RE: Facility Name: Mikeebo Landfill, Inc.

Agency Interest: 117009

Permit Number: PER20030001

Dear Sir:

1. Everest Indemnity Insurance Company, the "insurer" of P.O. Box 830, Liberty Corner, NJ, 07938 hereby certifies that it has issued liability insurance covering bodily injury and property damage to: Mikeebo Landfill, Inc., the "insured", of 8905 Dixie Blanchard Road in Shreveport, La. 71107, Caddo Parish in connection with the insured's obligation to demonstrate financial responsibility under LAC 33: VII.1301. The coverage applies at Mikeebo Landfill, Inc., Agency Interest No. 11709, Permit No. PER20030001, 8905 Dixie Blanchard Road in Shreveport, La. 71107, Caddo Parish for sudden and accidental occurrences. The limits of liability are \$1,000,000 each occurrence and \$2,000,000 annual aggregate, per site, exclusive of legal-defense costs. The coverage is provided under policy number 4000005514-081, issued on January 2, 2008. The effective date of said policy is January 1, 2008.
2. The insurer further certifies the following with respect to the insurance described in Paragraph 1
 - (a). Bankruptcy or insolvency of the insured shall not relieve the insurer of its obligations under the policy.
 - (b). The insurer is liable for the payment of amounts within any deductible applicable to the policy, with a right of reimbursement by the insured for any such payment made by the insurer. This provision does not apply with respect to that amount of any deductible for which coverage is demonstrated as specified in LAC 33: VII.1301.B.2.3 or 4.
 - (c). Whenever requested by the administrative authority, the insurer agrees to furnish to him a signed duplicate original of the policy and all endorsements.
 - (d). Cancellation of the insurance, whether by the insurer or the insured, will be effective only upon written notice and upon lapse of 60 days after a copy of such written notice is received by the administrative authority.
 - (e). Any other termination of the insurance will be effective only upon written notice and upon lapse of 30 days after a copy of such written notice is received by the administrative authority.
3. I hereby certify that the wording of this certificate is identical to the wording specified in LAC 33: VII.1399. Appendix B as regulations were constituted on the date first written above and that the insurer is licensed to transact the business of insurance, or eligible to provide insurance as an excess or surplus lines insurer, in one or more states, and is admitted, authorized, or eligible to conduct insurance business in the state of Louisiana.

Trenton L. Eversull

Signature of authorized representative of insured

Trenton L. Eversull

Typed name of authorized representative of insured

President - NECC of the South, LLC

Title of authorized representative of insured

103 Galeria Blvd, Slidell, LA 70458